

REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
4400 PGA Boulevard, Suite 500
Palm Beach Gardens, Florida 33410

Palm Beach Gardens Regulatory Office
SAJ-2004-1759 (IP-AAZ)

APR 13 2005

Florida Department of Transportation
Florida Turnpike Enterprise
Attn: Mr. Raymond Ashe, Jr.
P.O. Box 613069
Ocoee, FL 34761

Dear Mr. Ashe:

The U.S. Army Corps of Engineers (Corps) is pleased to enclose the Department of the Army permit, which should be available at the construction site. Work may begin immediately but the Corps must be notified of:

- a. The date of commencement of the work,
- b. The dates of work suspensions and resumptions of work, if suspended over a week, and
- c. The date of final completion.

This information should be mailed to the Enforcement Section of the Regulatory Division of the Jacksonville District at Post Office Box 4970, Jacksonville, Florida 32232-0019. The Enforcement Section is also responsible for inspections to determine whether Permittees have strictly adhered to permit conditions.

IT IS NOT LAWFUL TO DEVIATE FROM
THE APPROVED PLANS ENCLOSED.

Sincerely,

Marie G. Burns
Chief, Regulatory Division



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
4400 PGA Boulevard, Suite 500
Palm Beach Gardens, Florida 33410

REPLY TO
ATTENTION OF

APR 13 2005

Palm Beach Gardens Regulatory Office
SAJ-2004-1759 (IP-AAZ)

Florida Turnpike Enterprise
Attn: Frederick Gaines
P.O. Box 613069
Ocoee, FL 34761

Dear Mr. Gaines:

We have completed the review of permit application number SAJ-2004-1759 (IP-AAZ) submitted on behalf of the Florida Turnpike. Our regulations require that you have an opportunity to review any special or general conditions prior to final signature by the Department of the Army (DA). Enclosed are an original and a copy of an unsigned DA permit instrument.

Both copies must be signed by the applicant in the space provided on the last page of the instrument. Please type or print the name of the person signing below the signature and the date signed. This indicates that the applicant accepts the provisions and conditions of the permit.

Your attention is drawn to the special conditions included on Pages 3 of the permit that were developed specifically in response to your permit application. In accordance with General Condition 5 on Page 2 of the permit, a copy of the specific conditions stated in the water quality certification, when applicable, has been attached and therefore becomes a part of the DA permit.

SIGN AND RETURN BOTH THE ORIGINAL AND THE COPY TO THE MIAMI REGULATORY OFFICE AT THE LETTERHEAD ADDRESS.

The original will be signed by the District Engineer and returned to you with a placard to be posted at the site. It is important to note that the permit is not valid until it is signed by the District Engineer.

You are hereby advised that the following options are available to you in your evaluation of the enclosed permit:

1) You may sign the permit, and return it to the District Engineer for final authorization. Your signature on the permit means that you accept the permit in its entirety, and waive all rights to appeal the permit, or its terms and conditions.

2) This permit may contain special conditions required by the State of Florida Water Quality Certification. These conditions are not subject to the appeal process described in paragraph 3 below.

3) You may decline to sign the permit because you object to certain terms and conditions therein, and you may request that the permit be modified accordingly.

You must outline your objections to the terms and conditions of the permit in a letter to the District Engineer. Your objections must be received by the District Engineer within 60 days of the date of this Notification of Applicant Options (NOA), or you will forfeit your right to request changes to the terms and conditions of the permit under this appeal process. Upon receipt of your letter, the District Engineer will evaluate your objections, and may:

- (a) modify the permit to address all of your concerns.
- (b) modify the permit to address some of your objections, or
- (c) not modify the permit, having determined that the permit should be issued as previously written.

In any of these three cases, the District Engineer will send you a final permit for your reconsideration, as well as a Notification of Appeal (NAP) form and a Request for Appeal (RFA) form. Should you decline the final proffered permit, you can appeal the declined permit under the Corps of Engineers Administrative Appeal Process by submitting the completed RFA form to the Division Engineer. The Division Engineer must receive the RFA within 60 days of the date of the NAP that was transmitted with the second proffered permit.


In addition, enclosed is a 2- page customer survey form. If you have any comments on the service you have received during the evaluation of this application, please return the survey to us along with your signed permit instrument.

-3-

If you have any questions regarding this document, please contact Ms. Alisa Zarbo at the letterhead address or by telephone at 561-472-3514, by fax at 561-626-6971, or email at Alisa.A.Zarbo@SAJ02.usace.army.mil.

Sincerely,



 Marie Burns
Chief, Regulatory Division

DEPARTMENT OF THE ARMY PERMIT

Permittee: Florida Department of Transportation
Florida Turnpike Enterprise
Attn: Mr. Raymond Ashe, Jr.
Turnpike MP 263, Building 5315
PO Box 613069
Ocoee, Florida 34761

Permit No. SAJ-2004-1759(IP-AAZ)

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: This permit authorizes to widen 13.2 miles of the Florida Turnpike from Griffin Road to Atlantic Boulevard in Broward County, Florida. As a result of the project, approximately 195,600 cubic yards of fill would be placed in 41.2 acres of jurisdictional Waters of the United States. As mitigation, the applicant would purchase 7.2 acres of mitigation credits at the Dupuis Mitigation Bank, excavate and enhance 8.7 acres of uplands to provide a shallow hydrological connection to 16.9 acres of borrow ponds, and enhance/create 4.0 acres of wetlands from a barren borrow pond. The project is as shown and described on the attached plans numbered 2004-1759(IP-AAZ) in 9 sheets, dated April 7, 2005.

Project Location: The project is located in waters of the United States adjacent to the Florida Turnpike in the following sections in Broward County, Florida:

Sections 1, 2, 11-14, 23-26; Township 50S; Range 41E
Sections 12-14, 23-26, 35, 36; Township 49S; Range 41E
Sections 5-7; Township 49S; Range 42E
Sections 32-33; Township 48S; Range 42E

Begin: Latitude 26°02'56" North Longitude 80°12'53" West
End: Latitude 26°13'47" North Longitude 80°10'45" West

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 2 of 9

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on April 13, 2010. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit, you must obtain the signature and mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 4 of 9

West Palm Beach, FL 33410

6. Prior to any land clearing or ground disturbing activities, the permittee shall perform a cultural resource survey of the portion of the project that is within or immediately adjacent to East Acre Drive in the City of Plantation. This survey shall be submitted and reviewed by the Florida Department of State, Division of Historic Resources. If any historical or archeological artifacts are discovered, any and all construction activities shall be postponed until the Florida Department of State, Division of Historical Resources grants authorization to commence work.
7. The permittee shall comply with the attached standard manatee construction conditions during all in-water construction activities.
8. The permittee shall create 8.7 acres of shallow surface water management ponds, hydrologically connect 16.9 acres of isolated, existing surface water management ponds, and re-contour the 4.0 acres of existing steep open water ditch as described in FDOT's Mitigation Plan. The 4.0-acre wetland area will be planted and maintained in accordance with the Planting and Maintenance Plan.
9. The permittee shall subsequently submit annual monitoring reports to the Corps, Palm Beach Gardens office for a period of five years, the first no later than one year after the submission of the initial report. Each monitoring report shall provide a narrative, professional biological opinion of the condition of the mitigation areas. The monitoring report shall also contain a plan view describing the vegetative community, a list of species and their percent cover for each community, the percent cover of wetland and of exotic plant species, the sum of the survivors of those planted plus those recruited, a description of any unusual climatic or other factors, and panoramic photos from the same points as where the photos for the initial report.
10. The 4.0-acre mitigation area shall be considered successful when all of the following criteria are met: the canopy of native wetland plant species reaches 80 percent cover (that is, the sum of the survivors of those planted plus those recruited); the number of individual plants per unit area (the sum of survivors of those planted plus those recruited) equals 80% of the number of individuals planted; and the vegetation, planted or existing, must show evidence of normal growth and reproduction.

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 3 of 9

Special Conditions:

1. Fill material used with this project shall be limited to suitable, clean fill material, which excludes materials such as trash, debris, car bodies, asphalt, construction materials, concrete block with exposed reinforcement bars, and any soils contaminated with any toxic substance in toxic amounts (see Section 307 of the Clean Water Act).
2. Reduction and/or elimination of turbid water conditions in adjacent water bodies are to be achieved through the use of silt curtains or screens in the construction during periods of fill placement.
3. The permittee shall comply with the conditions specified in the South Florida Water Management District Permit Number 06-02282-P (copy attached).
4. The permittee shall furnish the U.S. Army Corps of Engineers, at the letterhead address, an "As built Drawing" of the completed project including a certified/sealed drawing which includes elevations illustrating the total amount of wetlands impacted by the project. This survey shall be furnished within 30 days of completion of the authorized work for verification and acceptance by the Corps.
5. Within 60 days from issuance of this permit, and prior to incurring any wetland impacts, the permittee shall purchase 7.2 acres of mitigation credits at the Dupuis Mitigation Bank. The permittee shall provide to the Corps proof of purchase within 10 days from the date of purchase. This notification shall be provided to:

U.S. Army Corps of Engineers
Jacksonville District
Regulatory Division, Enforcement Branch
P.O. Box 4970
Jacksonville, FL 32232-0019

A courtesy copy will also be provided to:

U.S. Army Corps of Engineers
South Permits Branch Office
4400 PGA Boulevard, Suite 500

PERMIT NUMBER: SAJ-2004-1759 (IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 5 of 9

11. If the 4.0-acre mitigation area has not reached the success criteria within the initial three years of monitoring, the permittee shall plant native wetland species to achieve the criteria. The permittee shall submit a contingency plan for the wetland plantings to the Corps for review and approval.

12. The 4.0-acre mitigation area shall be placed under a conservation easement. Within 90 days from the date of permit issuance, the permittee will have a legally sufficient conservation easement prepared to ensure that the mitigation areas will remain in their natural state in perpetuity. These natural mitigation areas will not be disturbed by any dredging, filling, land clearing, agricultural activities, planting, or other construction work whatsoever. Maintenance within these areas is allowed. The permittee agrees that the only future utilization of the mitigation areas in question will be as a purely natural area.

The permittee will prepare the proposed conservation easement, including a legal description, survey, and scale drawings, of the area in question and furnish the same to the Jacksonville District Office of Counsel, c/o the Regulatory Division, Enforcement Section, Post Office Box 4970, Jacksonville, Florida 32232-0019, for legal review and approval.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

() Section 10 of the Rivers and Harbors Act of 1899
(33 U.S.C. 403).

(X) Section 404 of the Clean Water Act (33 U.S.C. 1344).

() Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).

2. Limits of this authorization.

a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.

b. This permit does not grant any property rights or exclusive privileges.

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 6 of 9

c. This permit does not authorize any injury to the property or rights of others.

d. This permit does not authorize interference with any existing or proposed Federal projects.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:

a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.

b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

d. Design or construction deficiencies associated with the permitted work.

e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 7 of 9

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

(PERMITTEE)
RAYMOND ASHE, JR.
Florida Department of Transportation

(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

(DISTRICT ENGINEER)
ROBERT M. CARPENTER
Colonel, U.S. Army

(DATE)

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 8 of 9

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEEE-SIGNATURE)

(DATE)

(NAME-PRINTED)

(ADDRESS)

(CITY, STATE, AND ZIP CODE)

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 9 of 9

DEPARTMENT OF THE ARMY PERMIT

Attachments to Department of the Army Permit Number SAJ-2004-1759(IP-AAZ)

1. PERMIT DRAWINGS: Permit drawings are included as attachments #1 through #9, numbered 2004-1759(IP-AAZ), are incorporated into and made part of this permit.
2. MITIGATION PLAN: The Mitigation Plan, included as attachments #10 through #12, and the mitigation design drawings, included as attachments #13 through #27, are incorporated into and made part of this permit.
3. PLANTING AND MAINTENANCE PLAN: The Planting and Maintenance Plan, included as attachment #28, is incorporated into and made part of this permit.
3. WATER QUALITY CERTIFICATION: In accordance with General Condition number 5 on page 2 of this DA permit, the South Florida Water Management District Water Quality Certificate (No. 06-02282-P), issued on March 9, 2005 Limiting and Special Conditions are enclosed as attachments #29 through #31.

02/13/2002 02:21 7727818106

USACE STUART REG

PAGE 06/07

APR-13-2005 15:29

119

119 P.03

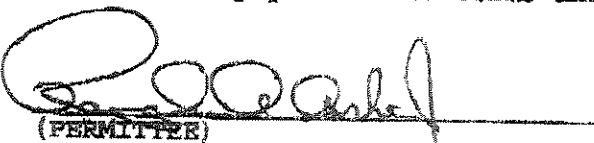
PERMIT NUMBER: SAJ-2004-1759 (IP-AA2)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 7 of 9

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.


(PERMITTEE)

RAYMOND A. ASHE JR.

Florida Department of Transportation


4/13/05
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.


(DISTRICT ENGINEER)
ROBERT M. CARPENTER
Colonel, U.S. Army
4/13/05
(DATE)

02/13/2002 02:21 7727818106

USACE STUART REG

PAGE 07/07

APR-13-2005 15:29

119

119 P.04

PERMIT NUMBER: SAJ-2004-1759(IP-AAZ)
PERMITTEE: FLORIDA DEPARTMENT OF TRANSPORTATION
PAGE 7 of 9

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.


(PERMITTEE)

RAYMOND A. ASHE JR.

Florida Department of Transportation

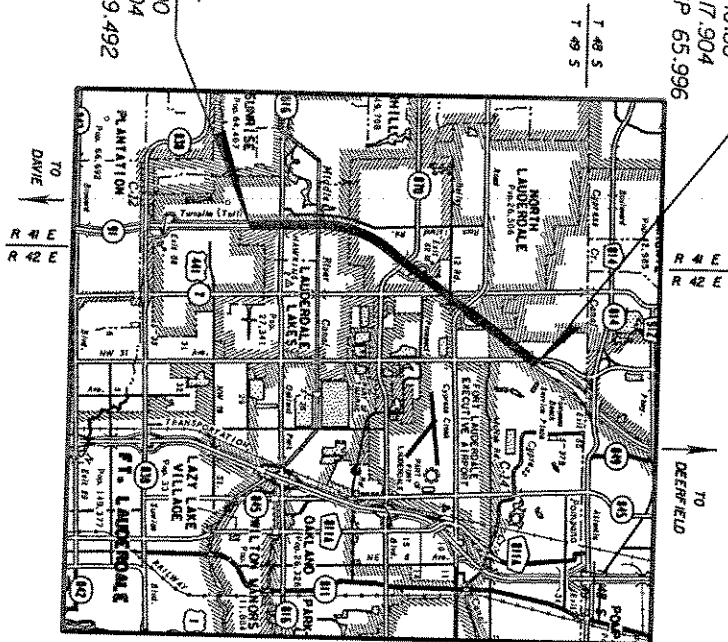
4/13/05
(DATE)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.


(DISTRICT ENGINEER)ROBERT M. CARPENTER
Colonel, U.S. Army4/13/05
(DATE)

END PROJECT
STA. 5343+40.88
COUNTY MP 17.904
TURNPIKE MP 65.996

BEGIN PROJECT
STA. 5000+00.00
COUNTY MP 11.404
TURNPIKE MP 59.492



STATE ROAD 91 (NORTH OF SUNRISE BOULEVARD TO ATLANTIC BOULEVARD)
VICINITY MAP

NOTE: DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88)
EL 0.00 NAVD-88 = 1.57 NGVD-29

INDEX OF PERMIT SKETCHES

| SHEET NO. | SHEET DESCRIPTION |
|-----------|---|
| 1 | VICINITY MAP |
| 2 | ELEVATION - TURNPIKE BRIDGE OVER C-13 CANAL |
| 3 | PLAN - TURNPIKE BRIDGE OVER C-13 CANAL |
| 4-7 | C-13 CANAL CROSS SECTION |
| 8 | PLAN-STATION 5035+00 |
| 9 | CROSS SECTION H-H STATION 5035+00 |

| PROJECT LOCATION |
|------------------------|
| 80° 12' 34" West Long. |
| 26° 11' 36" North Lat. |

PROJECT DESCRIPTION

STATE ROAD 91

TWP: 48.49 S

RNG: 41 E, 42 E

SEC 5.67, 12.43, 24

FLORIDA DEPARTMENT OF TRANSPORTATION

NAME: KENNETH W. JACKSON, P.E.

SIGNATURE

CERTIFICATE NO. 50602

DATE:

FPID: 406097-1-52-01

COUNTY BROWARD

DEP

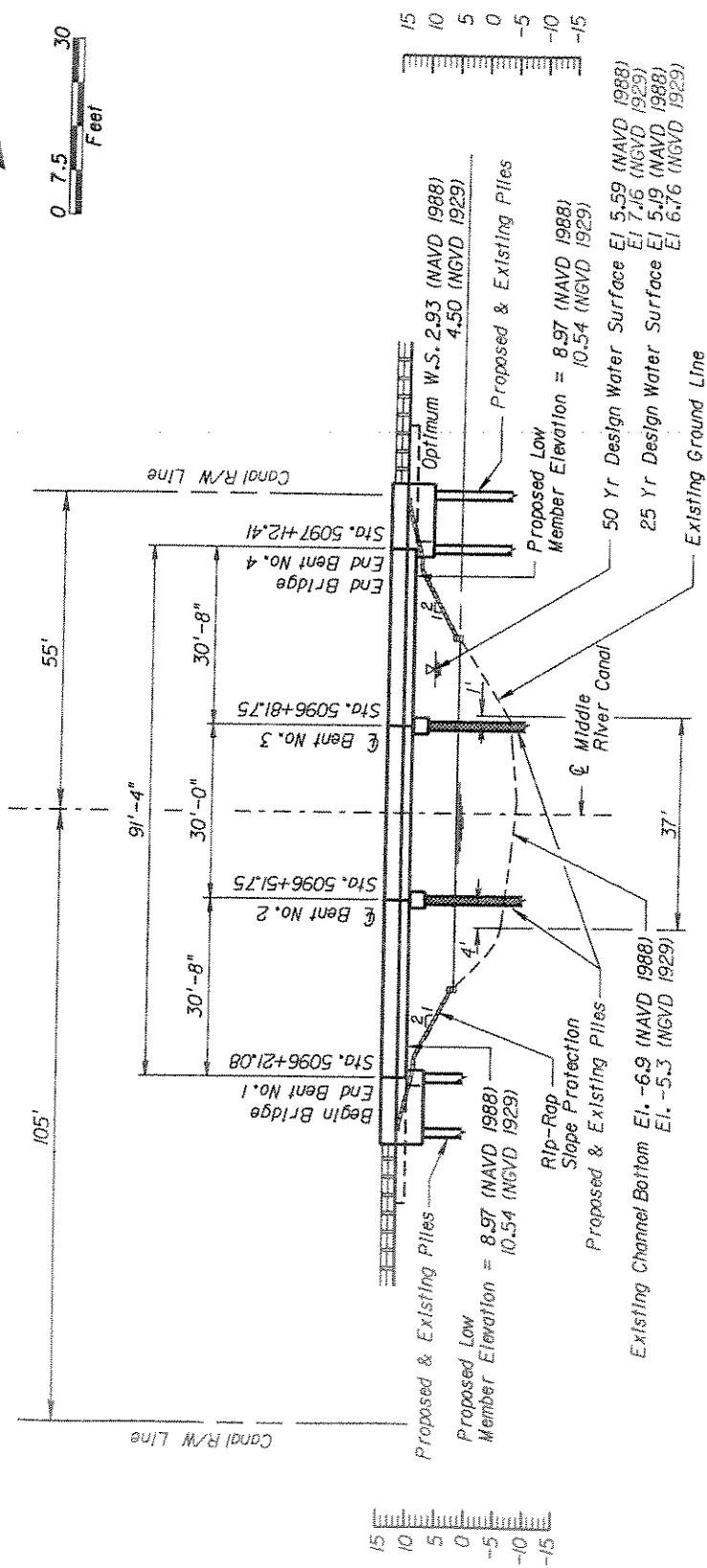
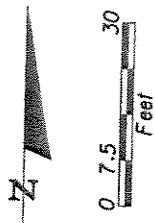
CG

SHEET 1 OF 9

COE

WMD

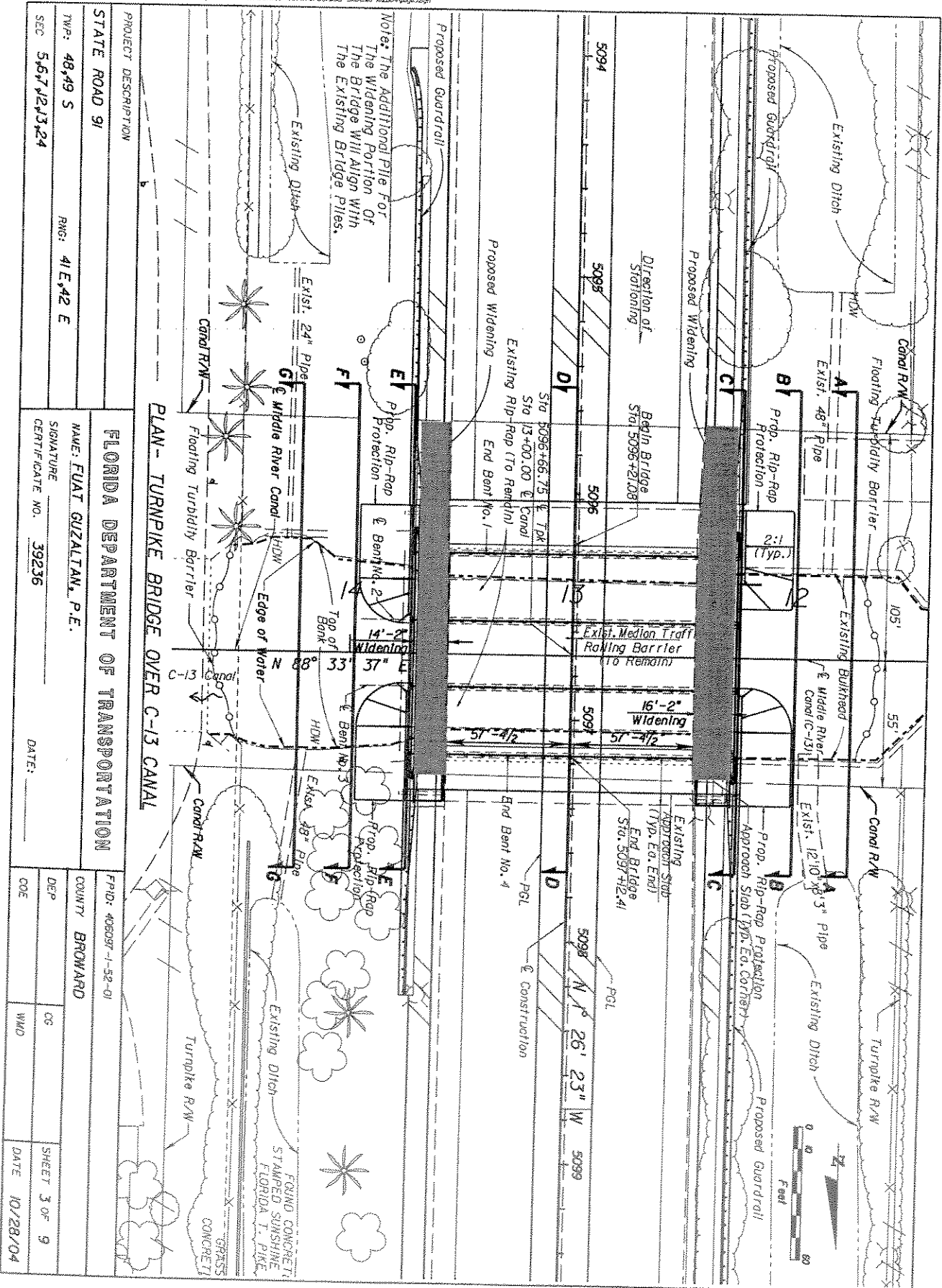
DATE 10/28/04

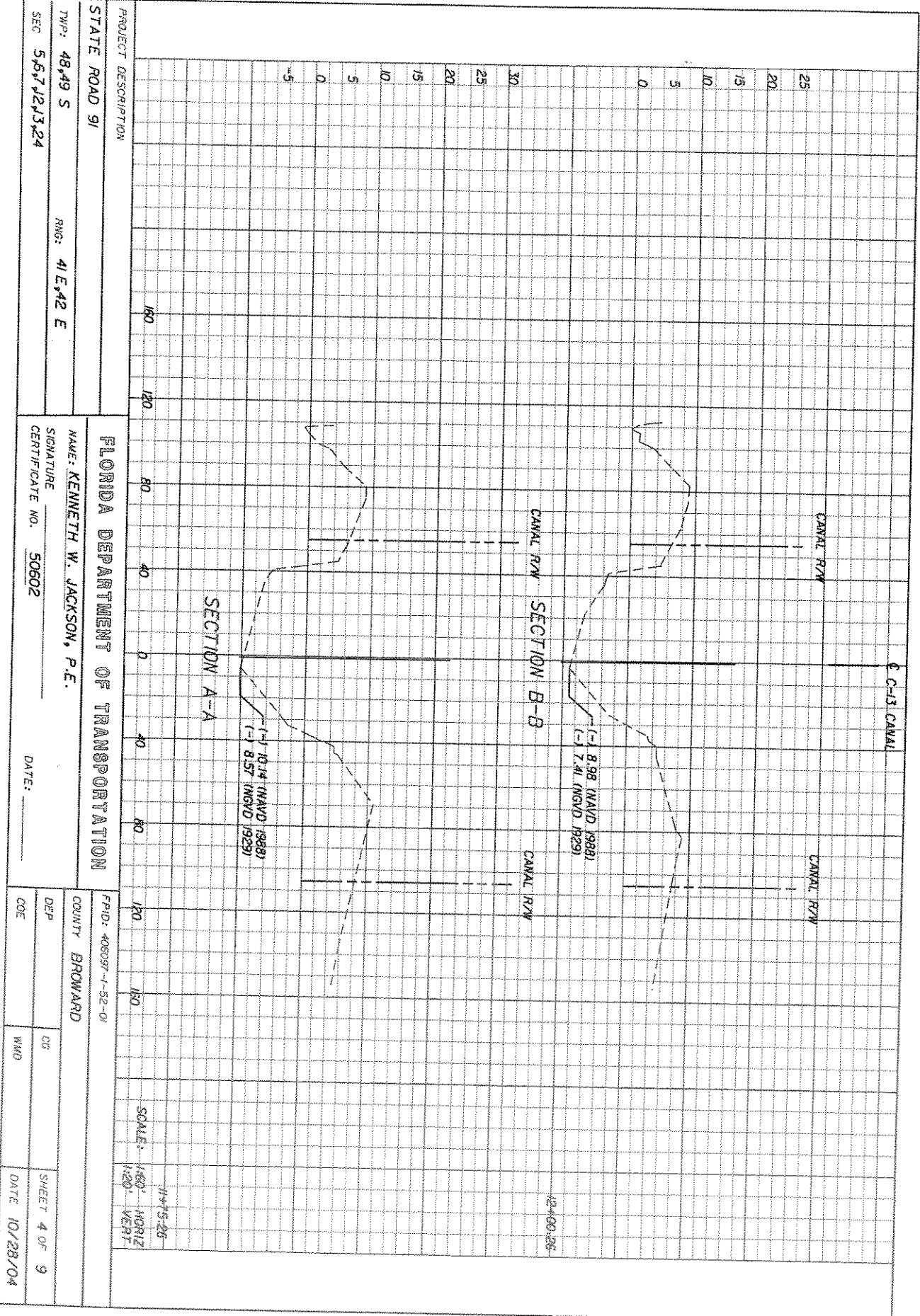


ELEVATION - TURNPIKE BRIDGE OVER C-13 CANAL

Note: The Additional Pile For The Widening Portion
Of The Bridge Will Align With The Existing Bridge Piles.

| | | | |
|---|--|----------------------|-----|
| PROJECT DESCRIPTION | | FFID: 406087-1-52-01 | |
| TWP: 48.49 S | | COUNTY: BROWARD | |
| SEC: 5.67, 12.3, 24 | | DEP: | CG |
| DATE: 10/28/04 | | COE: | WWD |
| NAME: FUAT GUZALTAN, P.E. SIGNATURE: _____ CERTIFICATE NO. 39236 DATE: _____ | | | |
| SHEET 2 OF 9 DATE 10/28/04 | | | |

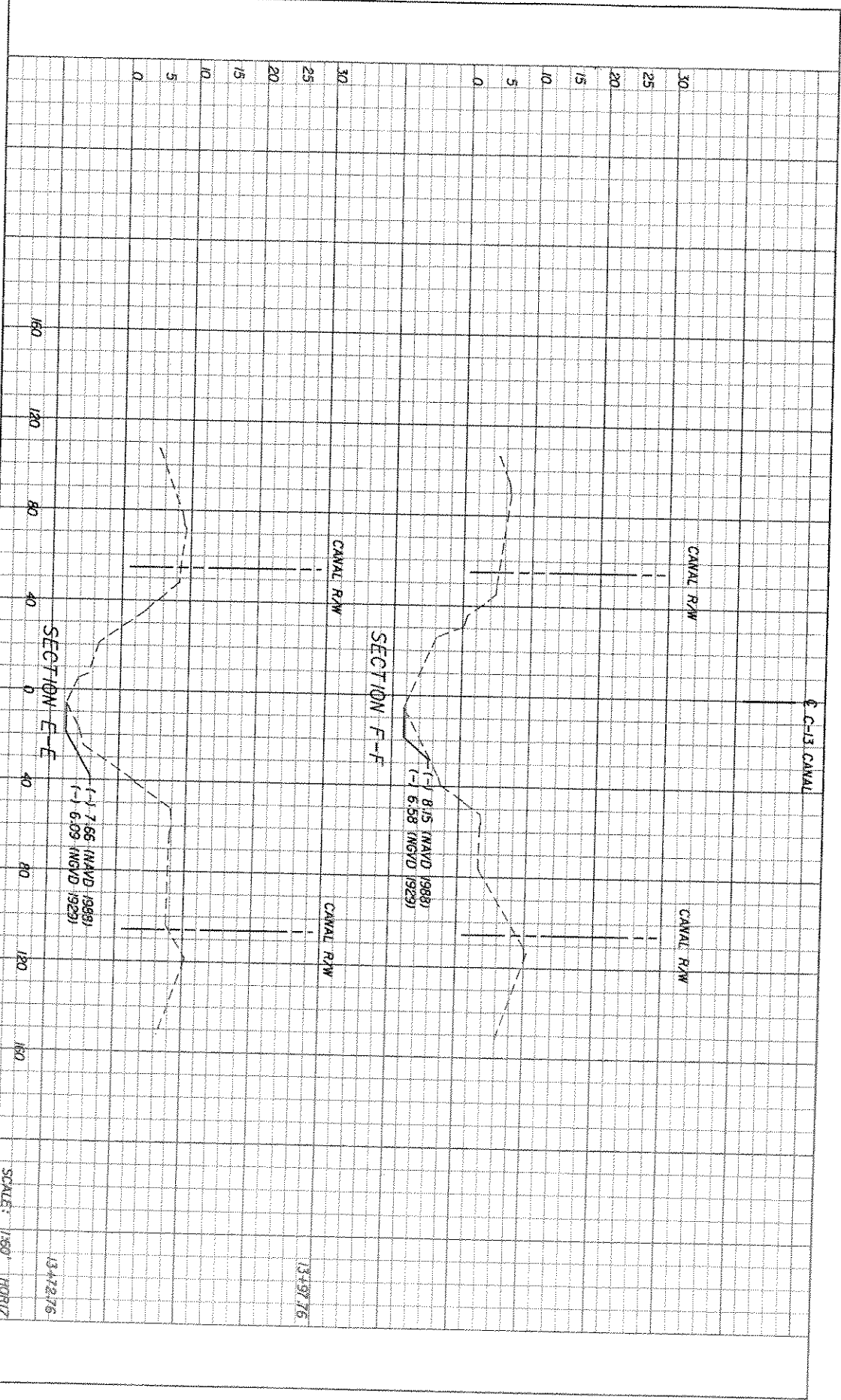




PROJECT DESCRIPTION
STATE ROAD 91
TWP: 48.49 S
SEC 5.67, 12.13, 24
RNG: 41 E, 42 E

FLORIDA DEPARTMENT OF TRANSPORTATION
NAME: KENNETH W. JACKSON, P.E.
SIGNATURE
CERTIFICATE NO. 50602
DATE:

FPID: 406097-1-52-01
COUNTY BROWARD
DEP CG
COE WHO
SHEET 6 OF 9
DATE 10/28/04

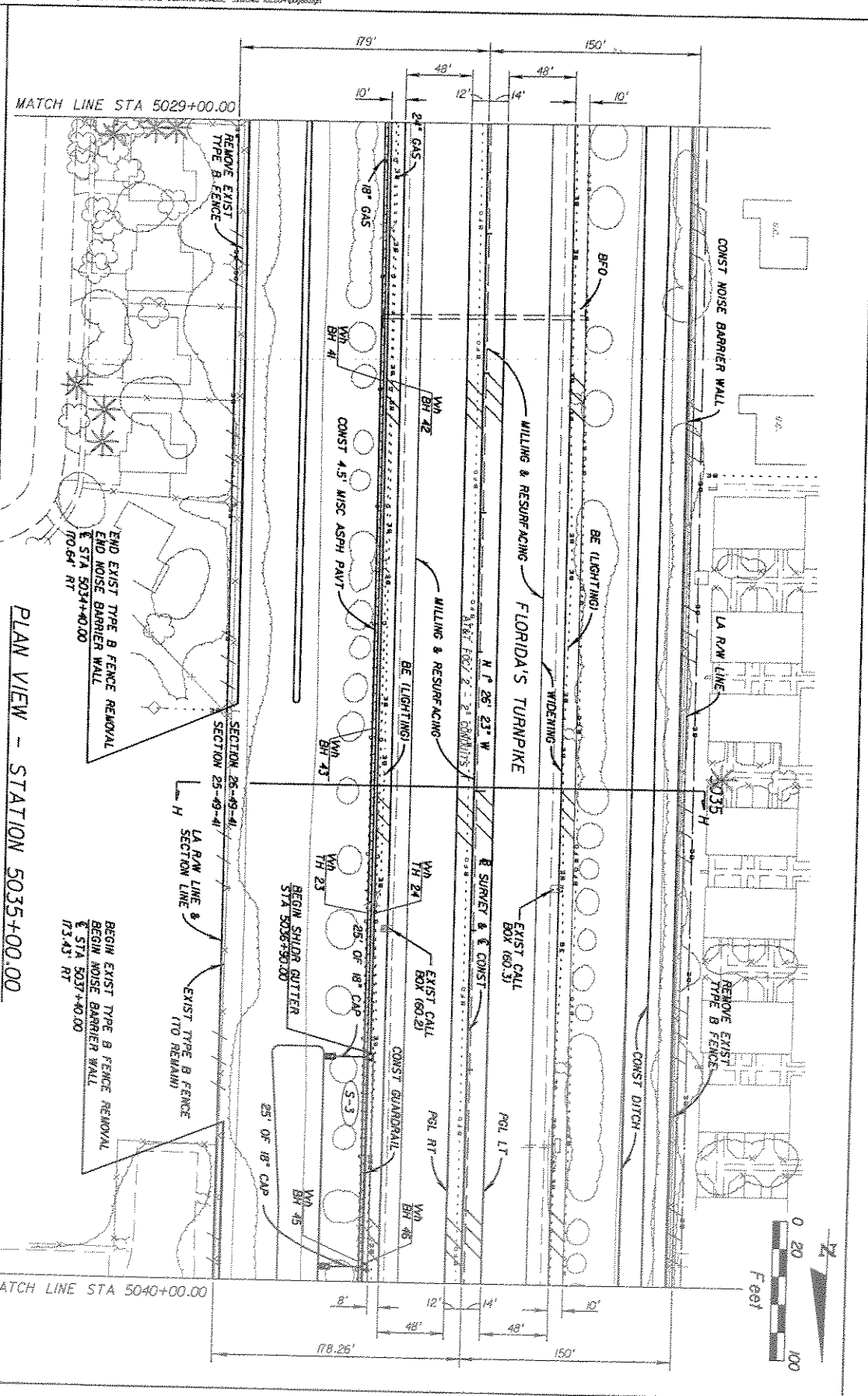


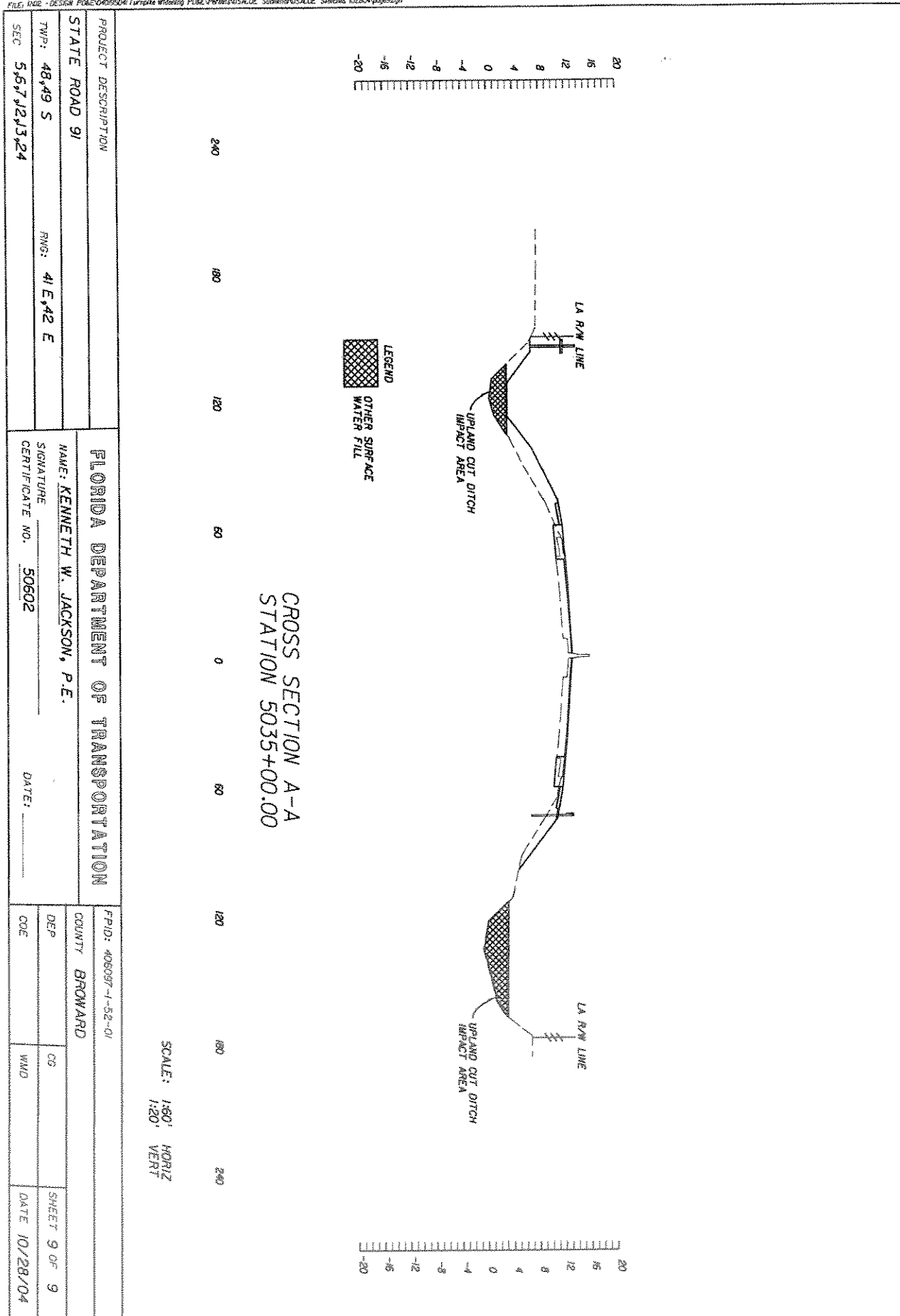
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PROJECT DESCRIPTION
 STATE ROAD 91
 TWP: 48.49 S
 RNG: 41 E, 42 E
 SEC 56.4, 57.2, 58.24

FLORIDA DEPARTMENT OF TRANSPORTATION
 NAME: KENNETH W. JACKSON, P.E.
 SIGNATURE
 CERTIFICATE NO. 50602
 DATE: _____

FP-ID: 408097-1-52-01
 COUNTY BROWARD
 DEP CC
 WID
 SHEET 8 OF 9
 DATE 10/28/04





**US Army Corps of Engineers – SAJ 20041759
FDOT, Florida's Turnpike Enterprise
Florida's Turnpike Widening from Griffin Road to Atlantic Boulevard
Broward County, Florida
FPID 406094-1-52-01 and 406097-1-52-01**

**Mitigation Plan to Quantify and Compensate for Unavoidable impacts to Other
Surface Waters that are Waters of the United States**

The above-referenced Turnpike widening will unavoidably impact approximately 41.2 acres of other surface waters that are waters of the United States and therefore within the US Army Corps of Engineers (COE) regulatory jurisdiction. The 41.2 acres of impacts are associated with roadside swales, ditches and canals created by excavation of fill material for the construction of Florida's Turnpike in the 1950's. These other surface waters are regularly maintained to control vegetation (native and nuisance).

The Wetland Rapid Assessment Procedure (WRAP) was utilized to describe the systems proposed for impact. A WRAP was conducted for the existing condition on the maintained South Florida Water Management District (SFWMD) Canals (C-11, North New River Canal, C-12 and C-13), as these systems are similar in function and field conditions. A WRAP was also performed for the existing condition on the roadside borrow swales, ditches and canals, as these systems are similar in function and field conditions. Of the 41.2 acres of proposed impacts, 0.2 acres are associated with the SFWMD Canals and 41.0 acres are associated with the roadside borrow areas. The SFWMD Canals have a value of 0.17 (out of 1) based on the WRAP procedure; while the roadside borrow areas have a value of 0.28 (out of 1). Since there are only 0.2 acres of impacts to SFWMD Canals, and the WRAP score is not significantly different from the roadside borrow areas score, Turnpike has designated all of the 41.2 acres of proposed impacts as roadside borrow areas for the WRAP evaluation.

The Turnpike proposes to offset the impacts through the following three mitigation steps.

1. The first mitigation step is the creation or hydrologic connection of approximately 25.6 acres of other surface waters within the project that will meet the jurisdiction criteria of the COE. The 25.6 acres includes the upland excavation of 8.7 acres within three wet ponds and the connection of 16.9 acres of existing isolated borrow pond to waters of the United States (Please see pages 6 and 7). Details of the three wet ponds are as follows: Pond 3 (Griffin to Sunrise Segment) includes 1.9 acres of wet pond excavation in uplands within the Interstate 595/Turnpike Interchange (Please see pages 4 and 5). Pond 7H (Griffin to Sunrise Segment) includes 2.8 acres of wet pond excavation in uplands within the Sunrise Boulevard/Turnpike Interchange (Please see pages 8 and 9). Pond 4 (Sunrise to Atlantic Segment) includes 4 acres of wet pond excavation in uplands just south of McNabb Road (Please see pages 10, 11, and 12).

2. The second mitigation step is the planting and maintenance of 4.0 acres of other surface waters within the project (pages 13 through 18). The planting area is included in the impact acreage as the existing system is an open water area with steeper side slopes. The proposed planting area is between Peters Road and Broward Boulevard on the east side of the Turnpike adjacent to the City of Fort Lauderdale Golf Course. The planting area will be a shallow linear system with a design bottom elevation of 1 foot below seasonal high water. Please see the attached Planting and Maintenance Plan (page 3).

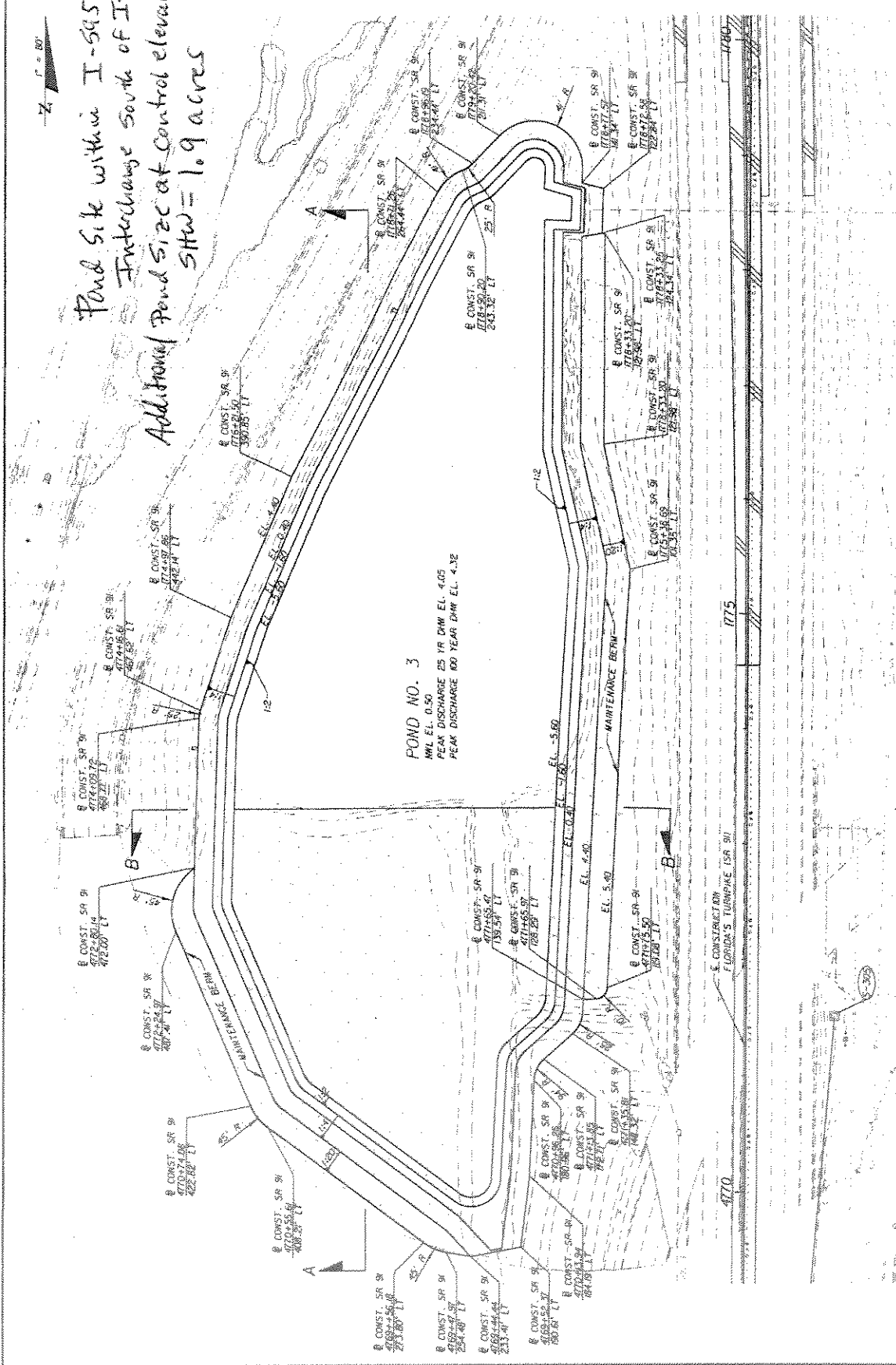
A WRAP was conducted on the proposed planted area, and a value of 0.43 (out of 1) was scored. Therefore approximately 1.72 units are available as mitigation (0.43 WRAP score times 4.0 acres). Since the existing borrow areas have a WRAP score of 0.28, the planted area compensates for 6.1 acres of impact (1.72 mitigation units divided by 0.28 WRAP score).

3. The third is the debit of 2.7 credits from a mitigation bank within the region. 2.7 credits required is based on the following calculations. The sum of mitigation steps 1 and 2 is 31.7 acres (25.6 acres + 6.1 acres) mitigated. With 31.7 acres mitigated under steps 1 and 2 there are 9.5 acres of proposed impacts remaining to be mitigated for (41.2 acres – 31.7 acres). 9.5 acres requiring mitigation with a WRAP score of 0.28 requires 2.7 mitigation credits or acres of mitigation (9.5 acres times 0.28 WRAP score). Turnpike proposes to use a local mitigation bank to offset the remaining 2.7 credits/acres required.

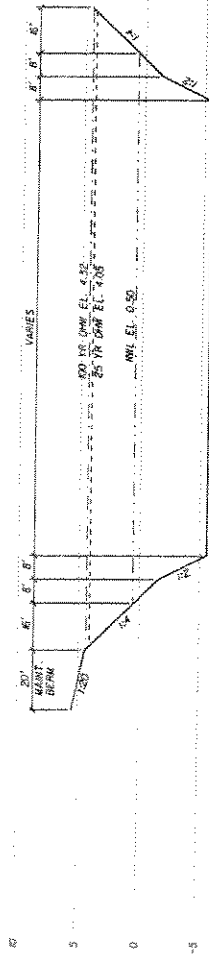
Based on information available at the Florida Department of Environmental Protection there are two private mitigation banks (Loxahatchee Mitigation Bank and Florida Wetlandsbank at Pembroke Pines) with service areas that cover the project area. In addition there is a joint SFWMD/FDOT mitigation bank (Dupuis Reserve) within the vicinity. The FDEP Mitigation Map indicates that Dupuis is within the mitigation service area that covers the project. Based on COE guidance acceptable mitigation is determined by a regional approach based criteria such as watershed or county boundary. The project is located in Broward County, Florida. There are no currently approved mitigation banks within Broward County. The project is located within the USGS's South East Coast Region which has been assumed to be synonymous with watershed for this discussion. There does not appear to be any approved mitigation banks within the South East Coast Region.

Therefore, Turnpike proposes to debit 2.7 credits from the joint SFWMD/FDOT Mitigation Bank at Dupuis Reserve to offset the proposed unavoidable impacts associated with the project.

Pond Site within I-595
Interchange South of I-595
Additional Pond Size at Control Elevation
SWW = 1.9 acres

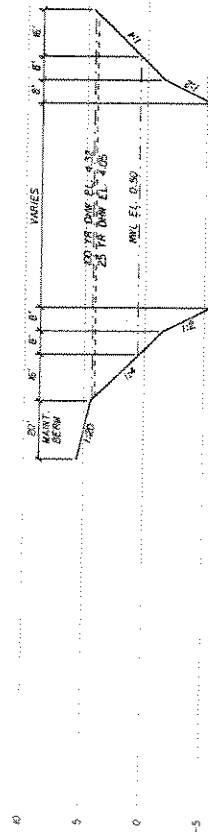


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|----------|---------|----------------------|--|----|-------------|-----------|--|--|--|--|----------|--------|----------------------|-------|---------|----------------|-----------------------------------|--------------|
| DATE | | | | BY | DESCRIPTION | REVISIONS | | | <div><div>RSH</div><div>Riverside, Smith and Hills, Inc. 215 N. BAKER STREET, SUITE 300 TAMPA, FLORIDA 33607-2099 (813) 289-5550 FAX (813) 289-5550 E-MAIL: RSH@RSH.COM</div><div>Engineer of Record: Ann Dufresne, P.E., No. 43902 AutoCAD: Engineering, Planning and Environmental Services</div></div> | <div>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</div> <table><tr><td>ROAD NO.</td><td>COUNTY</td><td>FINANCIAL PROJECT ID</td></tr><tr><td>SR 91</td><td>BROWARD</td><td>416094-1-52-01</td></tr></table> | ROAD NO. | COUNTY | FINANCIAL PROJECT ID | SR 91 | BROWARD | 416094-1-52-01 | STORMWATER POND DETAILS POND 3 | SHEET NO. |
| ROAD NO. | COUNTY | FINANCIAL PROJECT ID | | | | | | | | | | | | | | | | |
| SR 91 | BROWARD | 416094-1-52-01 | | | | | | | | | | | | | | | | |
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SCALE RATIO: 1:50 HORIZ.
1:50 VERT.

SECTION A-A

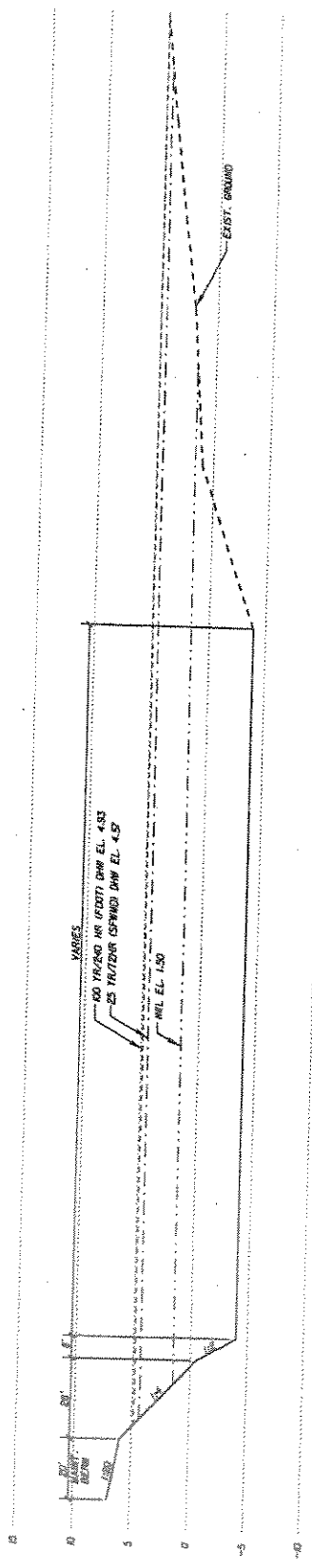


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SECTION B-B

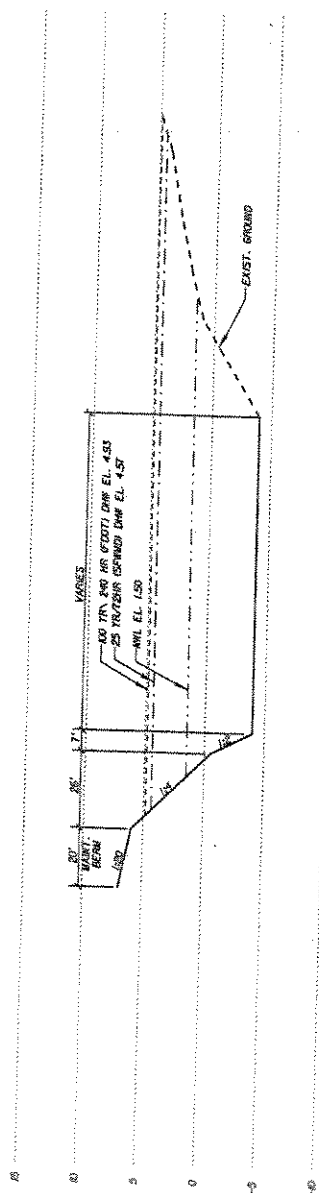
NOTE:
ALL ELEVATIONS ARE MVD 1988 DATUM.
MVD 1988 EL. 0.00 = MVD 1929 EL. 1.54
FOR EXAMPLE: EL. 14.46 SHOWN IN PLANS IS
EQUIV. TO EL. 16.00 MVD 1929.

| | | | | | |
|--------------------------------------|--|--|---|--|------------------|
| REVISIONS NO. DESCRIPTION DATE BY | | RSH Reynolds, Smith and Hill, Inc. 415 1st Street, N.W. Atlanta, GA 30308 (404) 525-8800 FAX (404) 525-8801 E-MAIL: RSH@RSH.COM | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. GRANT FINANCIAL PROJECT ID | | SHEET NO. 364 |
| SR 91 BRIMAR 400094-1-52-01 | | | STORMWATER POND DETAILS POND 3 | | |



SCALE: 1"=10' HORIZ.
1"=10' VERT.

SECTION A-A



SCALE: 1"=10' HORIZ.
1"=10' VERT.

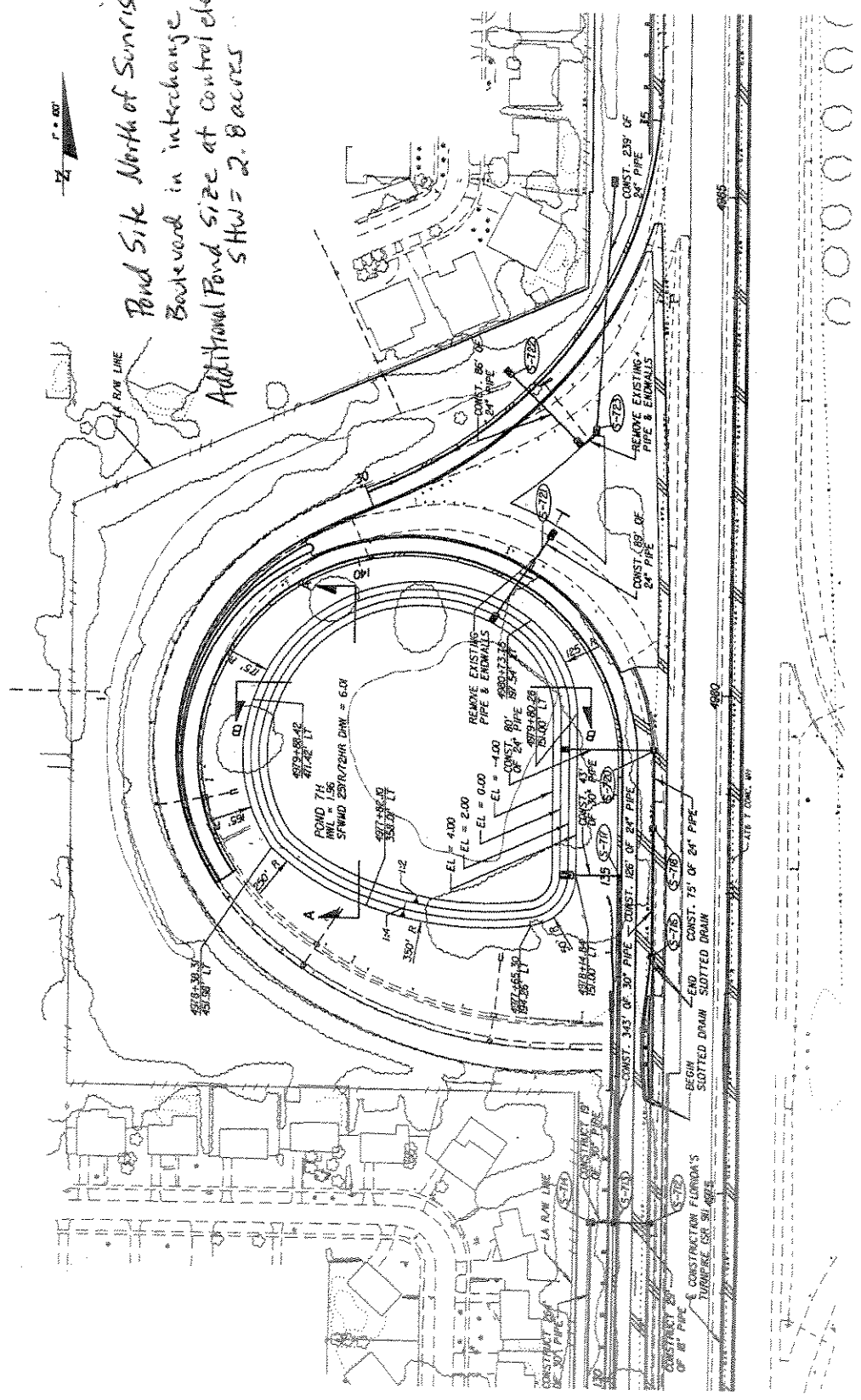
SECTION B-B

NOTE:
ALL ELEVATIONS ARE MVD 1988 DATUM
(MVD 1988 EL. 0.00 = NGVD 1985 EL. 1.54)
FOR EXAMPLE: EL. 14.46 SHOWN IN PLANS IS
EQUAL TO EL. 16.00 NGVD 1985.

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|------|--|-----------|--|-------------|--|---|--|---|--|---------------|--|
| DATE | | REVISIONS | | DESCRIPTION | | RS&H Raymond, Smith and Hills, Inc. 2001 South US Highway 1 Suite 100 Fort Lauderdale, FL 33316 (954) 571-1000 Fax: (954) 571-1001 www.rsandh.com | | STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. SR 91 COUNTY BROWARD FINANCIAL PROJECT ID 406094-1-52-01 | | SHEET NO. 367 | |
|------|--|-----------|--|-------------|--|---|--|---|--|---------------|--|



Pond Site North of Sunrise
Boulevard in interchange
Additional Pond size at control elevation/
SHW = 2.8 acres



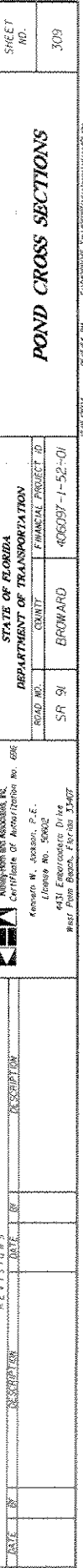
SHEET
NO.
370

STORMWATER POND DETAILS
POND 7th

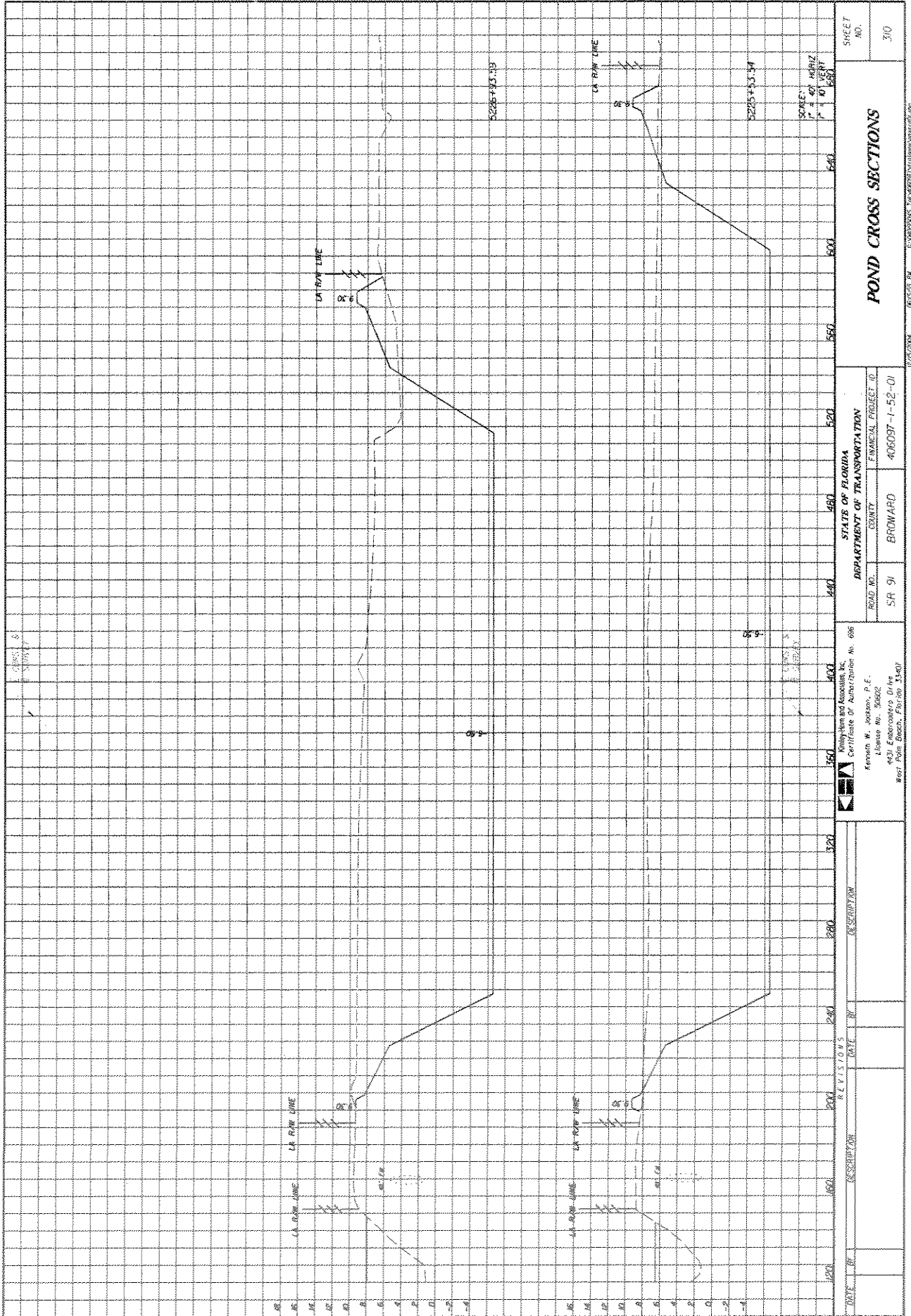
| STATES OF FLORIDA | |
|------------------------------|----------------------|
| DEPARTMENT OF TRANSPORTATION | |
| ROAD NO. | FINANCIAL PROJECT ID |
| SR 91 | 406094-1-52-01 |
| BROWARD | |

RSH
Perryville, Smith and Tiller, Inc.
and Associates, Inc.
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www.perryville-smith-tiller.com

| REVISIONS | | DESCRIPTION | |
|-----------|----|-------------|----|
| DATE | BY | DATE | BY |
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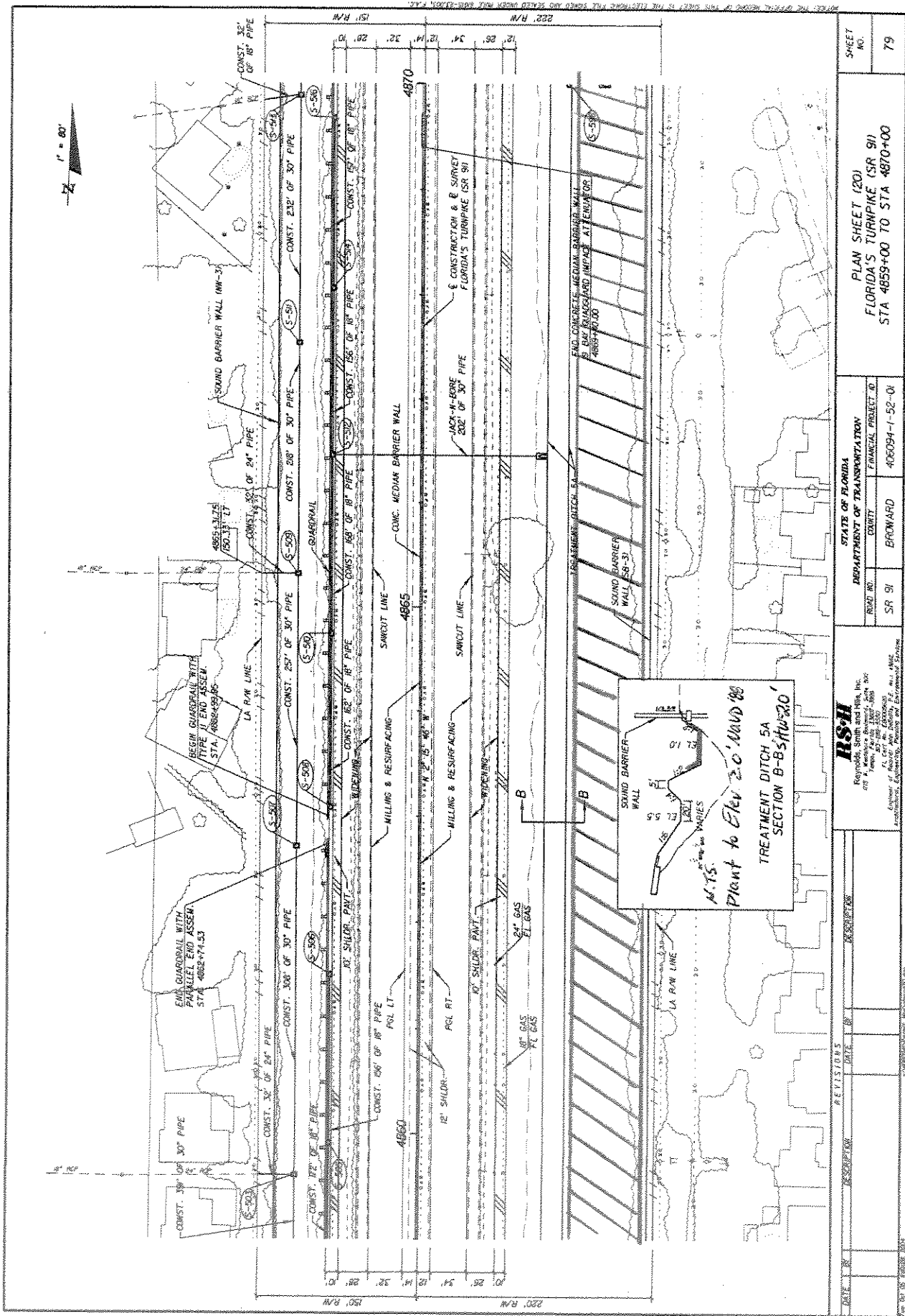
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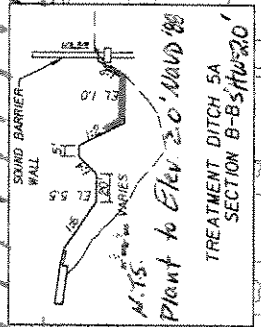
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| <div style="display: flex; justify-content: space-between;"> <div> <p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <p>ROAD NO. SR 91 COUNTY BROWARD PROJECT ID 405037-1-52-01</p> </div> <div> <p>Kingston and Associates, Inc. Certification of Administrator No. 096 Kenneth W. Jackson, P.E. License No. 50802 4431 Embroidery Drive West Palm Beach, Florida 33407</p> </div> </div> | | | | |
| <p>POND CROSS SECTIONS</p> | | | | <p>SHEET NO. 310</p> |

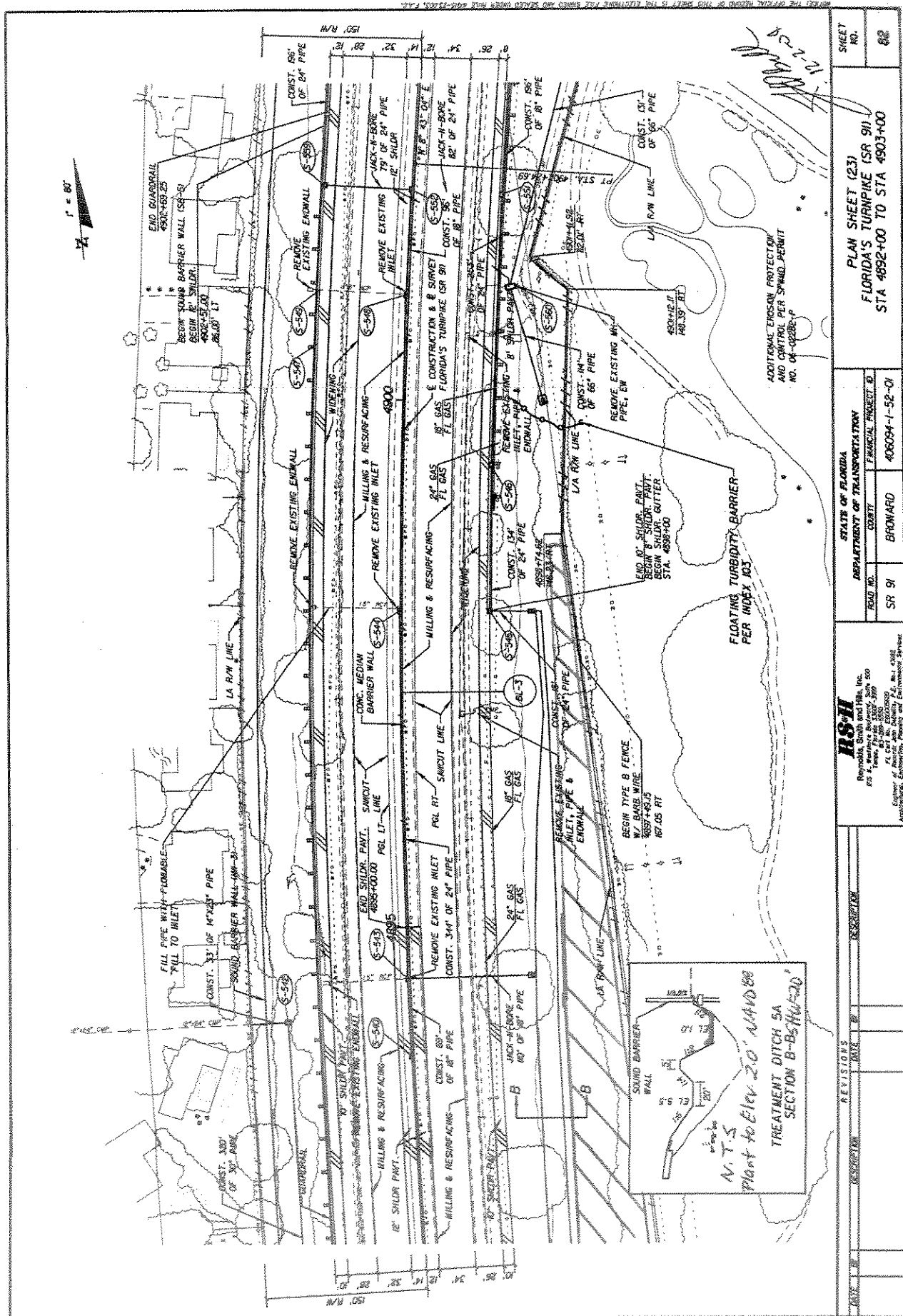
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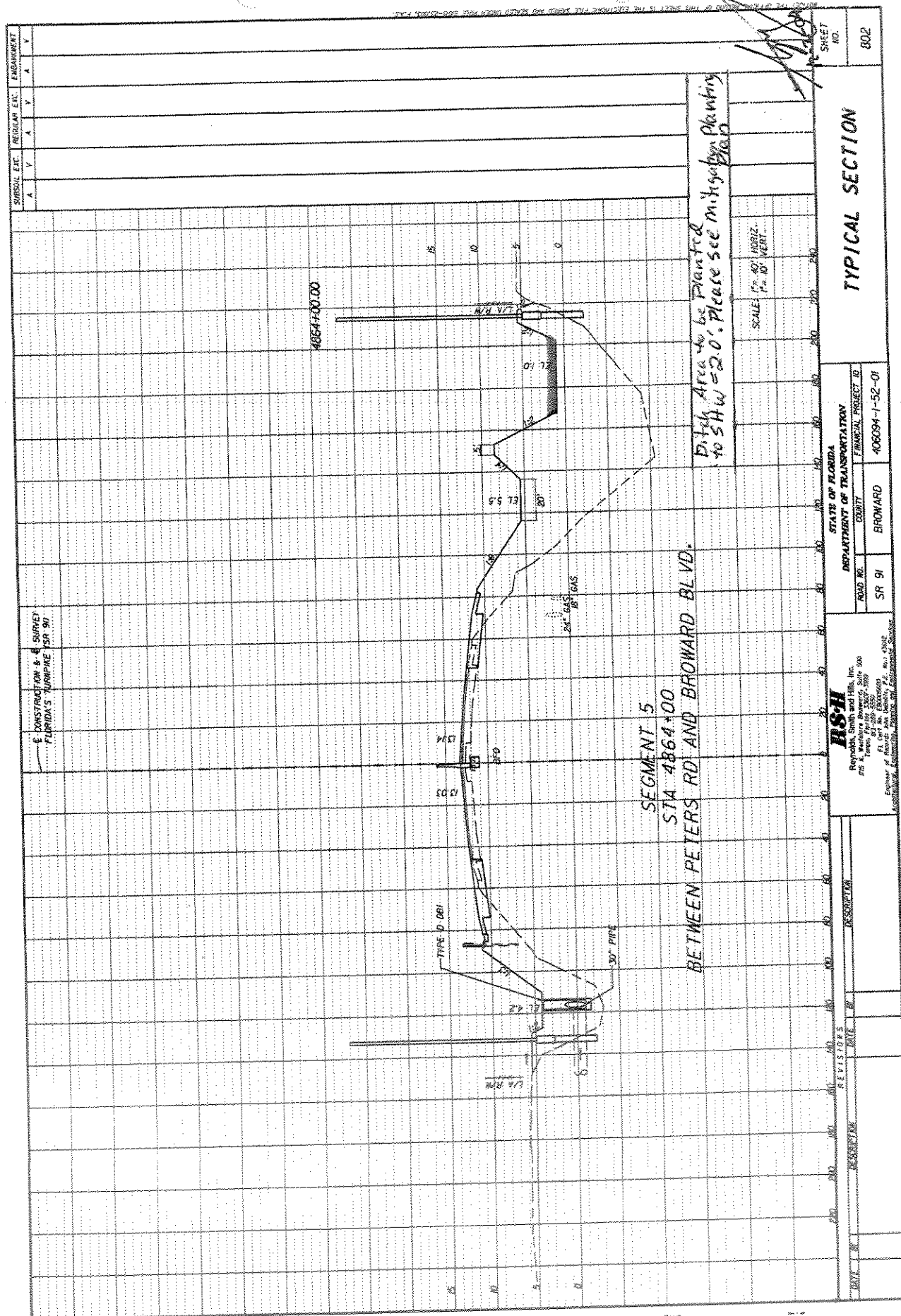
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| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | | PLAN SHEET (20) FLORIDA'S TURNPIKE (SR 91) STA 4859+00 TO STA 4870+00 | | SHEET NO. 79 |
| ROAD NO. SR 91 | CONTRACT NO. 406094-1-52-01 | | | |

→ Ditch Area to be planted
(Please see COE Mitigation Plan)





⇒ Ditch Area to be Planted
(Please see COE mitigation Plan)



US Army Corps of Engineers – SAJ 20041759
FDOT, Florida's Turnpike Enterprise
Florida's Turnpike Widening from Griffin Road to Atlantic Boulevard
Broward County, Florida
FPID 406094-1-52-01 and 406097-1-52-01

Planting and Maintenance Plan for Shallow Wet Ditches filled to 1' below Seasonal High Water

I Planting Plan

1. Planting of the ditches filled by the project to 1' below seasonal high water elevation will be conducted during the growing season (March to October) immediately following final grading of the site.
2. Planting of suitable wetland vegetation, such as knotted spikerush (*Eleocharis interstincta*), sand cordgrass (*Spartina bakeri*), pickerel weed (*Pontedaria cordata*), and lanceleaf arrowhead (*Sagittaria lancifolia*), will occur on three foot centers. Wetland vegetation will be planted at appropriate elevations under the Supervision of the Turnpike Mitigation Manager.
3. Supplemental planting will be conducted depending on establishment and presence of a minimum of 80% cover of desirable species. Percent cover will be estimated qualitatively during the maintenance events.

II Maintenance Plan

1. Maintenance will be conducted on the shallow wet ditches filled to 1' below seasonal high water three times per year during the life of the project.
2. Maintenance will include the manual control/removal of exotic and nuisance vegetation and the removal of trash/debris. Herbicide will only be used for the control of exotic or nuisance species and will be done under the directive of the Turnpike Mitigation Manager. The term nuisance/exotic species shall be considered as those species, which grow in such a manor as to decrease the survivability of planted species. These will include, but not be limited to the following: primrose willow (*Ludwigia peruviana*), brazilian pepper (*Schinus terebinthifolius*), melaleuca (*Melaleuca quinquenervia*), castor bean (*Ricinus communis*), australian pine (*Casuarinas* spp.), phragmites (*Phragmites australis*), and torpedo grass (*Panicum repens*).